Installation Instructions

EMPI / Brosol Carburetor Kit for Dual Port #43-4425-0 / #43-4426-0

1. Disconnect Battery.
2. Remove vehicle gas cap.
3. Remove stock air cleaner and attached components.
4. Remove distributor cap and ignition wires making sure that you identify for correct reassembly.
5. Disconnect throttle cable.
6. Remove stock fuel line to carburetor.
7. Disconnect and remove the electric choke and idle cut-off solenoid wires.
8. Remove manifold, carburetor and end castings. (For detailed instructions, refer to a good Repair manual).
9. Insert clean rags in the intake ports and clean the mounting surface using a gasket scraper and or razor blade.
10. Install studs and hose fittings on the new manifolds.
11. Install new (taller) air cleaner stud/bracket using 5mm x 30 mm bolts and lock washers supplied.
12. Install carb base gaskets and carburetors on new manifolds. Linkage arms on carbs are to face the rear of vehicle.
13. Remove rags from intake ports and install manifolds with carbs using intake gaskets supplied.
14. Remove the nut on case half and upper left backing plate screw for upright linkage bracket.
15. Position linkage bracket onto the engine case stud and replace nut (hand tight only). Install 6mm x 20mm screw through upper linkage bracket and into backing plate. Once in position: torque both per manual recommendations. (Some aftermarket fan shrouds may require a 1/4-20 x 3/4" bolt, supplied).
16. Install intake crossover tube and clamps using the tubing supplied in kit. Cut just enough to connect from one manifold fitting to the other. Tubing should not rest on the engine case.
17. Install fuel line from the fuel pump to "T" fitting and from each side of the "T" to carbs. Use new clamps supplied and be sure each is secure.
18. Assemble linkage X-Rod and install the return spring on the passenger side. Bar goes behind Alt/Gen stand. Notice that the linkage connectors to carbs on each end are adjustable with nuts to lock them in place. Adjust the rod so that it "pops" on to each linkage arm without moving the linkage arm on the carb. Be sure to secure the linkage ends by tightening the nuts against the linkage ends.
19. Install the actuating rod to the linkage X-Rod on one side and the throttle pivot on the other. The throttle pivot is located on the linkage bracket.
20. Install return spring to linkage bracket.
21. Install throttle cable.
22. Using a Female spade connector crimp and splice two (2) 14 gauge wires (supplied) making them long enough to reach the choke elements on each side of the engine (Fig 2) and onto the positive (15+) side of the 12 volt coil (Fig 3). NOTE: The coil must not have power when the ignition key is off this could damage the choke elements.
23. Install new air cleaners.
24. Reinstall distributor cap and wires.
25. Reinstall fuel cap.
26. Connect battery.
27. Check to see that linkage does not bind and returns quickly and easily when released.
28. Crank engine for a few seconds to bring fuel to carburetors. CHECK ALL CONNECTIONS FOR LEAKS.
29. Adjust idle mixture screws if necessary.

This kit has been jetted for a basically stock 1600cc engine. Any other modifications to engine may require special jetting. If you have any questions consult a professional VW mechanic. An 009 Centrifugal Advance Distributor (#00-9443-B) or equivalent should be used for the application. For appropriate torque specifications on nuts and bolts, refer to a good VW manual. If you have any installation questions and/or problems, contact your EMPI distributor before proceeding.

Figure 1
Figure 2
Figure 3